Watson's
Checked List
of
King's
Collection

Set No. 3.

Dr. Asa Gray,
Cambridge,
Ma

Poisoned.

UNITED STATES GEOLOGICAL EXPLORATION OF THE 40TH PARALLEL.

CLARENCE KING, U. S. GEOLOGIST, IN CHARGE.

LIST OF PLANTS COLLECTED IN NEVADA AND UTAH,

1867-'69;

NUMBERED AS DISTRIBUTED.

SERENO WATSON,

COLLECTOR.

Open packages with care.

A large portion of the collection of 1867, in Western Nevada, was made by Mr. W. W. BAILEY, Botanist of the Expedition. All such specimens are credited to him in the distribution.

LIST OF PLANTS.

1. Clematis Douglasii, Hook. Form. (*C. Wyethii*, Nutt.)
2. ligusticifolia, Nutt., Var. brevifolia, T. & G.
3. alpina, Mill., Var. Ochotensis, Gray.
4. verticillaris, DC. Form. (*C. Columbiana*, T. & G.)
5. Thalictrum alpinum, L. Clover Mts., Nevada. 10,000 ft. alt. Sept.
6. sparsiflorum, Turcz. Provo Cañon, Uintas. 7,000 ft. alt. July.
7. Fendleri, Eng.
8. Form.
9. Var. (?)
10. Anemone multifida, DC.
11. decapetala, L.
12. Myosurus minimus, L.
13. aristatus, Benth.
14. Ranunculus aquatilis, L., Var. trichophyllus, Chaix.
15. Var. stagnatilis, DC. (*R. divaricatus*, Gray's Man.)
16. Andersonii, Gray.
17. Var. tenellus, S. Watson.
18. alismæfolius, Geyer, Var. montanus, S. Watson.
19. Flammula, L., Var. reptans, Gray. Bear River Cañon, Uintas. 8,000 ft. alt. August.
20. Cymbalaria, Pursh.
21. affinis, R. Br., Var. leiocarpus, Trautv.
22. glaberrimus, Hook.
23. sceleratus, L.
24. multifidus, Pursh, Var. repens, Hook. Weber Valley, Utah. 5,500 ft. alt. August.
25. digitatus, Hook. Havallah Mts., Nevada. 8,000 ft. alt. June.
26. nivalis, R. Br., Var. Eschscholtzii. (*R. Eschscholtzii*, Schlecht.)
27. repens, L.
28. macranthus, Scheele. (*R. repens*, Var. *macranthus*, Gray.)
29. fascicularis, Muhl.
30. orthorhynchus, Hook., Var. alpinus, S. Watson. Wahsatch Mts. 10,000 ft. alt. July.
31. Caltha leptosepala, DC.

32. Trollius laxus, Salisb.
33. Aquilegia canadensis, L., Var. formosa, Torr.
34 Subalpine form.
35. flavescens, S. Watson.
36. Subalpine form.
37. cærulea, James.
38. Delphinium elatum, L., Var. (?) occidentale, S. Watson.
39. Menziesii, DC.
40. With pink flowers.
41. With double flowers.
42. Var. Utahense, S. Watson.
43. depauperatum, Nutt.
44. Aconitum nasutum, Fisch.
45. Actæa spicata, L., Var. arguta, Torr. (*A. arguta*, Nutt.)
46. Pœonia Brownii, Dougl.
47. Berberis Aquifolium, Pursh.
48. Nuphar advena, Ait.
49. Argemone Mexicana, L., Var. hispida, Torr.
50. Eschscholtzia Californica, Cham.
51. Var. hypecoides, Gray.
52. Corydalis aurea, Willd., Var. occidentalis, Eng.
53. Var. micrantha, Eng.
54. Parrya macrocarpa, R. Br. Uintas, Utah. 12,000 ft. alt. August.
55. Cheiranthus Menziesii, Benth. & Hook.
56. Nasturtium officinale, R. Br. Near Salt Lake City.
57. sinuatum, Nutt.
58. lyratum, Nutt.
59. obtusum, Nutt.
60. Var. (?) alpinum, S. Watson. Head of Bear River Cañon, Uintas. 10,500 ft. alt. Aug.
61. palustre, DC. Truckee Valley, Nevada. July.
62. Var. hispidum, Gray.
63. Var.
64. Var.
65. Barbarea vulgaris, R. Br.
66. Var. gracilis, DC.
67. Arabis hirsuta, Scop.
68. Form.
69. platysperma, Gray. E. Humboldt Mts., Nevada. 8,000 ft. alt. Sept.
70. canescens, Nutt. (?)
71. Var. latifolia, S. Watson.
72. longirostris, S. Watson.
73. perfoliata, Lam.
74. Drummondii, Gray.
75. Var. alpina, S. Watson.

76. Arabis retrofracta, Grah.
77. arcuata, Gray.
78. Streptanthus cordatus, Nutt.
79. Cardamine cordifolia, Gray.
80. hirsuta, L.
81. Platyspermum scapigerum, Hook. Steamboat Springs, Washoe Valley, Nevada. 5,000 ft. alt. May.
82. Vesicaria montana, Gray.
83. Physaria didymocarpa, Gray.
84. Draba alpina, L.
85. Var.
86. Var. (*D. glacialis*, Adams.)
87. Var.
88. Var. (*D. algida*, Adams.)
89. stellata, Jacq., Var. hebecarpa, Hook.
90. muricella, Wahl. (?)
91. Douglasii, Gray. Mt. Davidson, Nevada. 6,000 ft. alt. April.
92. aurea, Vahl.
93. nemorosa, L.
94. Var. lutea, Gray.
95. Caroliniana, Walt., Var. micrantha, Gray.
96. Sisymbrium junceum, Bieb.
97. canescens, Nutt.
98. Form.
99. Californicum, S. Watson. (*Smelowskia* (?), Gray.)
100. Smelowskia calycina, Meyer.
101. Erysimum cheiranthoides, L.
102. asperum, DC.
103. Var. (?) pumilum. (*E. pumilum*, Nutt.)
104. Var. inconspicuum, S. Watson.
105. Stanleya pinnatifida, Nutt.
106. viridiflora, Nutt.
107. Thelypodium integrifolium, Endl.
108. sagittatum, Endl.
109. Nuttallii, S. Watson. (*Streptanthus sagittatus*, Nutt.)
110. brachycarpum, Torr.
111. laciniatum, Endl.
112. Caulanthus crassicaulis, S. Watson. (*Streptanthus*, Torr.)
113. pilosus, S. Watson.
114. hastatus, S. Watson.
115. Brassica nigra, Benth. & Hook. (*Sinapis*, L.)
116. campestris, L. (*Sinapis*, L.)
117. Capsella Bursa-pastoris, Mœnch.
118. divaricata, Walpers. (*Hymenolobus*, Nutt.)
119. Lepidium intermedium, Gray.

120. Lepidium alyssoides, Gray.
121. montanum, Nutt.
122. Var. (?) alpinum, S. Watson.
123. ——— (?)
124. Frémontii, S. Watson.
125. dictyotum, Gray. Carson City, Nevada. April.
126. flavum, Torr. Near Humboldt Lake, Nevada. May.
127. nanum, S. Watson.
128. Thlaspi alpestre, L. (?)
129. Thysanocarpus elegans, Fisch. & Mey.
130. Cleome integrifolia, T. & G.
131. aurea, Nutt.
132. ——— (?)
133. sparsifolia, S. Watson.
134. Cleomella parviflora, Gray. Monitor Valley, Nevada. July.
135. plocasperma, S. Watson. Hot Springs, Ruby Valley, Nevada.
136. longipes, Torr. Hot Springs, Grass Valley, Nevada.
137. Var. (?) grandiflora, S. Watson.
138. Polanisia uniglandulosa, DC.
139. Viola palustris, L.
140. cucullata, Ait.
141. canina, L.
142. Canadensis, L. Wahsatch Mts. 7,000 ft. alt. July.
143. Nuttallii, Pursh.
144. Var. præmorsa. (*V. præmorsa*, Dougl.)
145. Var. venosa, S. Watson.
146. Saponaria Vaccaria, Host.
147. Silene acaulis, L.
148. Douglasii, Hook.
149. Var.
150. antirrhina, L.
151. Menziesii, Hook.
152. Lychnis apetala, L. Uintas, above Bear River. 12,000 ft. alt. August.
153. Ajanensis, Regel. (?) With the last.
154. Drummondii, S. Watson. (*Silene*, Hook. ?)
155. nuda, S. Watson.
156. Cerastium nutans, Raf.
157. vulgatum, L., Var. Behringianum, Gray. Uintas. 10,000 ft. alt. August.
158. arvense, L. Uintas. 8,000 ft. alt. July.
159. Stellaria Jamesii, Torr.
160. longipes, Goldie.
161. borealis, Big. Uintas. 8,000 ft. alt. August.

162. Stellaria crassifolia, Ehrh. Near Unionville, Nevada. 5,000 ft. alt. June.
163. umbellata, Turcz.
164. Kingii, S. Watson. E. Humboldt Mts., Nevada. 9,000 ft. alt. July.
165. Arenaria congesta, Nutt.
166. formosa, Fisch. Wahsatch. 6,000 ft. alt. August.
167. Fendleri, Gray, Var. glabrescens, S. Watson.
168. Var. subcongesta, S. Watson.
169. pungens, Nutt.
170. aculeata, S. Watson. E. Humboldt Mts., Nevada. 6,500 ft. alt. August.
171. verna, L. Uintas, above Bear River. 11,000 ft. alt. August.
172. Var. hirta, Fenzl. With the last.
173. arctica, Stev.
174. lateriflora, L. Uintas. 7,000 ft. alt. July.
175. Sagina Linnæi, Presl. Wahsatch. 8,000 ft. alt. July.
176. nivalis, Fries. (?) Uintas, above Bear River. August.
177. Spergularia media, Presl. Wahsatch. 6,000 ft. alt.
178. Portulaca oleracea, L. Unionville, Nevada.
179. Talinum pygmæum, Gray.
180. Claytonia Caroliniana, Michx., Var. lanceolata. (*C. lanceolata*, Pursh.)
181. umbellata, S. Watson.
182. arctica, Adams, Var. megarhiza, Gray.
183. perfoliata, Don.
184. Chamissonis, Esch. & Ledeb.
185. Spraguea umbellata, Torr.
186. Calyptridium roseum, S. Watson.
187. Lewisia rediviva, Pursh.
188. Bergia Texana, Seub. Carson River Bottom, Nevada. August.
189. Hypericum Scouleri, Hook.
190. mutilum, L. (?)
191. Sidalcea malvæflora, Gray.
192. Small-flowered form.
193. Sterile form. Cumberland, Nevada. June.
194. candida, Gray.
195. Malvastrum coccineum, Gray.
196. Var. grossulariæfolium, Torr.
197. Munroanum, Gray.
198. Sphæralcea Emoryi, Torr.
199. Form.
200. acerifolia, Nutt.
201. Sida hederacea, Torr.
202. Linum perenne, L.

203. Linum Kingii, S. Watson.
204. Geranium Richardsonii, F. & M.
205. Carolinianum, L.
206. Var. longipes, S. Watson.
207. Erodium cicutarium, L'Her.
208. Flœrkia proserpinacoides, Willd.
209. Ptelea angustifolia, Benth. (?)
210. Pachystima myrsinites, Raf.
211. Ceanothus velutinus, Dougl., Var. lævigatus, T. & G.
212. sorediatus, H. & A., Var. glaber, S. Watson.
213. prostratus, Benth.
214. Acer grandidentatum, Nutt.
215. glabrum, Torr.
216. Negundo aceroides, Mœnch.
217. Rhus glabra, L.
218. Toxicodendron, L.
219. aromatica, Ait., Var. trilobata, Gray.
220. Thermopsis fabacea, DC., Var. montana, Gray.
221. Lupinus pusillus, Pursh.
222. brevicaulis, S. Watson.
223. Form.
224. uncialis, S. Watson.
225. parviflorus, Nutt.
226. laxiflorus, Dougl. E. Humboldt Mts., Nevada. 7,500 ft. alt. July.
227. argenteus, Pursh.
228. flexuosus, Lindl.
229. Var. (?)
230. meionanthus, Gray, Var. (?) heteranthus, S. Watson.
231. leucopsis, Agardh.
232. Var. (?)
233. sericeus, Pursh.
234. aridus, Dougl. Wahsatch Mts. 6,000 ft. alt. July.
235. leucophyllus, Lindl. Heber Valley, Wahsatch. 6,000 ft. alt. July.
236. ——? E. Humboldt Mts., Nevada. 5,000 ft. alt. June.
237. Medicago sativa, L. Unionville, Nevada.
237[a]. Melilotus alba, Lam.
238. Trifolium longipes, Nutt.
239. Kingii, S. Watson.
240. nanum, Torr. Uintas. 12,000 ft. alt. August.
241. dasyphyllum, T. & G. Uintas. 11–12,000 ft. alt. Aug.
242. Andinum, Nutt.
243. Parryi, Gray. Bear River Cañon, Uintas. 9,000 ft. alt. August.
244. microcephalum, Pursh.

245. Trifolium variegatum, Nutt.
246. fimbriatum, Lindl.
247. cyathiferum, Lindl.
248. gymnocarpon, Nutt. Parley's Park, Wahsatch. 6,500 ft. alt. June.
249. Hosackia Purshiana, Benth.
250. Psoralea lanceolata, Pursh.
251. Dalea polydenia, Torr. Truckee Desert, Nevada. 4,000 ft. alt. July.
252. Kingii, S. Watson.
253. Astragalus diphysus, Gray.
254. lentiginosus, Dougl.
255. Var. Frémontii, S. Watson. (*A. Frémontii*, T. & G.)
256. platytropis, Gray.
257. calycosus, Torr.
258. Andersonii, Gray.
259. malacus, Gray.
260. Canadensis, L. Provo Cañon, Wahsatch. 6,000 ft. alt. July.
261. Var. Mortoni, S. Watson. (*A. Mortoni*, Nutt.)
262. hypoglottis, L.
263. Nuttallianus, DC., Var. trichocarpus, T. & G. Stansbury Island. 4,300 ft. alt. June.
264. arrectus, Gray. Coyote Mts., Nevada. 5,000 ft. alt. June.
265. atratus, S. Watson.
266. obscurus, S. Watson. Truckee Pass, Nevada. 5,000 ft. alt. May.
267. aboriginum, Rich. E. Humboldt Mts. 10,000 ft. alt. August.
268. Robbinsii, Gray, Var. (?) occidentalis. S. Watson. E. Humboldt Mts., Nevada. 10,000 ft. alt. August.
269. iodanthus, S. Watson.
270. Form.
271. Beckwithii, T. & G.
272. pterocarpus, S. Watson. Mouth of Reese Valley. 4,500 ft. alt. June.
273. eriocarpus, S. Watson.
274. Purshii, Dougl.
275. Utahensis, T. & G.
276. Geyeri, Gray.
277. Hookerianus, Gray. Star Peak, Nevada. 10,000 ft. alt. September.

278. Astragalus oophorus, S. Watson. Reese River Pass. 5,000 ft. alt. July.
279. jejunus, S. Watson. Bear River Valley, Evanston, Utah. 6,000 ft. alt. August.
280. nudus, S. Watson. W. Humboldt Mts., Nevada. 5,000 ft. alt.
281. Chamæleuce, Gray.
282. speirocarpus, Gray.
283. filipes, Torr.
284. porrectus, S. Watson. Trinity Mts., Nevada. 5,000 ft. alt. May.
285. multiflorus, Gray.
286. tegetarius, S. Watson.
287. campestris, Gray.
288. junceus, Gray.
289. simplicifolius, Gray.
290. Kentrophyta, Gray.
291. Var. elatus, S. Watson. Holmes Creek Valley, Nevada. 6,000 ft. alt. Sept.
292. Oxytropis campestris, L., Var. viscida. (*O. viscida*, Nutt.) E. Humboldt Mts., Nevada. 10,000 ft. alt. August.
293. Glycyrrhiza lepidota, Nutt.
294. Hedysarum Mackenzii, Rich.
295. Vicia Americana, Muhl.
296. Lathyrus polyphyllus, Nutt.
297. palustris, L.
298. ornatus, Nutt.
299. Prunus Andersonii, Gray.
300. emarginata, Walp.
301. Virginiana, L. (?)
302. demissa, Walp.
303. Spiræa opulifolia, L.
304. Var. pauciflora, Hook.
305. dumosa, Nutt.
306. cæspitosa, Nutt.
307. Var. elatior, S. Watson. Raft River Mts., Utah. 7,000 ft. alt. September.
308. Rubus Nutkanus, Moç.
309. strigosus, Mx.
310. leucodermis, Dougl. Cottonwood Cañon, Wahsatch. 6,000 ft. alt. July.
311. Purshia tridentata, DC.
312. Cercocarpus parvifolius, Nutt.
313. ledifolius, Nutt.
314. breviflorus, Gray. American Fork Cañon, Wahsatch. 5,000 ft. alt. August.

315. Cowania Mexicana, Don. (*C. Stansburiana*, Torr.)
316. Dryas octopetala, L.
317. Geum macrophyllum, Willd.
318. triflorum, Pursh.
319. Rossii, Seringe.
320. Var. β., T. & G. E. Humboldt Mts., Nevada. 9,000 ft. alt. August.
321. Fragaria vesca, L.
322. Virginiana, Ehrh., Var. (?) glauca, S. Watson.
323. Potentilla Norwegica, L.
324. millegrana, Eng.
325. Form.
326. Pennsylvanica, L., Var. strigosa, Pursh.
327. diversifolia, Lehm.
328. Var. glaucophylla, Lehm.
329. Reduced form.
330. Var. multisecta, S. Watson.
331. Var. pinnatisecta, S. Watson.
332. More alpine.
333. pulcherrima, Lehm.
334. Digitate form.
335. nivea, L. Uinta Mts. 12,000 ft. alt. August.
336. gracilis, Dougl.
337. Low form. (*P. fastigiata*, Nutt.?)
338. Var. flabelliformis, Nutt.
339. Nuttallii, Lehm. (*P. rigida*, Nutt.)
340. Anserina, L.
341. fruticosa, L.
342. Alpine form.
343. glandulosa, L.
344. procumbens, Clairv.
345. Ivesia Gordoni, T. & G.
346. Baileyi, S. Watson. Wright's Cañon, W. Humboldt Mts., Nevada. 7,000 ft. alt. August.
347. Var. setosa, S. Watson.
348. Kingii, S. Watson.
349. Rosa blanda, Ait.
350. fraxinifolia, Bork.
351. Pyrus sambucifolia, Ch. & Schl.
352. Cratægus rivularis, Nutt. (?)
353. Amelanchier Canadensis, T. & G., Var. alnifolia, T. & G.
354. Saxifraga cæspitosa, L. Uinta Mts. 11,000 ft. alt. August.
355. rivularis, L.
356. adscendens, L.
357. nivalis, L.
358. Form. (*S. Virginiensis*, Mx.)

359. Saxifraga integrifolia, Hook. Wahsatch. 6,000 ft. alt. June.
360. punctata, L.
361. flagellaris, Willd. Uintas. 11,500 ft. alt. August.
362. Tellima parviflora, Hook.
363. tenella, Benth. & Hook.
364. Mitella pentandra, Hook.
365. trifida, Grah.
366. Heuchera rubescens, Torr.
367. cylindrica, Dougl., Var. alpina, S. Watson. Clover Mts., Nevada. 11,000 ft. alt. September.
368. parvifolia, Nutt.
369. Parnassia parviflora, DC.
370. fimbriata, Banks.
371. Jamesia Americana, T. & G. American Fork Cañon, Wahsatch. 7,000 ft. alt. August.
372. Ribes hirtellum, Mx.
373. irriguum, Dougl.
374. leptanthum, Gray.
375. lacustre, Poir.
376. Alpine form. (*R. setosum*, Dougl.)
377. prostratum, L'Her. Wahsatch. 9,000 ft. alt. July.
378. bracteosum, Dougl.
379. cereum, Dougl.
380. viscosissimum, Pursh.
381. sanguineum, Pursh, Var. variegatum, S. Watson. Clear Creek Cañon, near Carson City. 5,000 ft. alt. April.
382. aureum, Pursh.
383. Tillæa angustifolia, Nutt. Goose Creek, Nevada. 6,000 ft. alt. September.
384. Sedum Rhodiola, DC.
385. rhodanthum, Gray. Uintas. 9,000 ft. alt. August.
386. stenopetalum, Pursh.
387. debile, S. Watson.
388. Hippuris vulgaris, L.
389. Myriophyllum verticillatum, L.
390. Callitriche verna, L.
391. Var. terrestris, Gray.
392. autumnalis, L. Wahsatch. 6,000 ft. alt. July.
393. Ammannia latifolia, L. Carson River Bottom, Nevada. 4,000 ft. alt. July.
394. Epilobium alpinum, L.
395. tetragonum, L.
396. paniculatum, L.
397. angustifolium, L.
398. obcordatum, Gray.
399. Zauschneria Californica, Presl.

400. Clarkia rhomboidea, Dougl.
401. Gayophytum ramosissimum, T. & G.
402. racemosum, T. & G.
403. Var.
404. diffusum, T. & G.
405. Œnothera biennis, L.
406. Var. grandiflora, T. & G.
407. coronopifolia, T. & G.
408. albicaulis, Nutt., Var. Nuttallii, Eng.
409. deltoides, Torr. & Frem.
410. triloba, Nutt.
411. marginata, Nutt.
412. (Var. purpurea, S. Watson.) = Œ. Wrightii, Gray. Pl. Wright. 1. 57.
413. glabella, Nutt.
414. scapoidea, Nutt.
415. Var. clavæformis, S. Watson. (*Œ. clavæformis*, Torr.)
416. breviflora, T. & G.
417. tanacetifolia, T. & G. Truckee Meadows, near Glendale, Nevada. July.
418. heterantha, Nutt.
419. Boothii, Dougl.
420. alyssoides, H. & A.
421. Var. minutiflora, S. Watson.
422. dentata, Cav.
423. Var.
424. pterosperma, S. Watson. Trinity Mts., Nevada. 5,000 ft. alt. May.
425. Andina, Nutt.
426. Gaura parviflora, Dougl.
427. Circæa alpina, L., Var. intermedia, Ehrh. = C. Pacifica
428. Mentzelia albicaulis, Dougl.
429. Var. gracilenta, S. Watson. (*M. gracilenta*, T. & G.)
430. Var. integrifolia, S. Watson.
431. congesta, Nutt.
432. lævicaulis, T. & G.
433. Echinocactus Simpsoni, Eng.
434. Opuntia Missouriensis, DC.
435. Var.
436. hystricina, Eng. & Big.
437. fragilis, Nutt.
438. pulchella, Eng.
439. Sesuvium portulacastrum, L., Var.
440. Orogenia linearifolia, S. Watson.
441. Cicuta maculata, L.

442. Carum Gairdneri, Benth. & Hook. (*Edosmia*, T. & G.)
443. Sium lineare, Mx.
444. angustifolium, L.
445. Pimpinella apiodora, Gray. Clover Mts., Nevada. 9,000 ft. alt. September.
446. Osmorhiza nuda, Torr.
447. Myrrhis occidentalis, Benth. & Hook. (*Glycosma*, Nutt.)
448. Cymopterus nivalis, S. Watson.
449. montanus, Nutt., Var. globosus, S. Watson.
450. glaucus, Nutt.
451. longipes, S. Watson.
452. fœniculaceus, Nutt.
453. (?) anisatus, Gray.
454. Ligusticum apiifolium, Benth. & Hook. (*Cynapium*, Nutt.)
455. Thaspium trifoliatum, Gray. Parley's Park, Wahsatch. 6,000 ft. alt. June.
456. Selinum Kingii, S. Watson.
457. Angelica Breweri, Gray.
458. pinnata, S. Watson.
459. Archangelica Gmelini, DC. (?) Uintas, Bear River Cañon. Aug.
460. Ferula multifida, Gray.
461. Peucedanum sativum, Benth. & Hook. (*Pastinaca*, L.)
462. Nuttallii, S. Watson. (*P. latifolium*, Nutt.) Havallah Mts., Nevada. June.
463. graveolens, S. Watson.
464. Var. alpinum, S. Watson. E. Humboldt Mts., Nevada. 9,000 ft. alt. Aug.
465. simplex, Nutt.
466. millefolium, S. Watson. Antelope Island, Salt Lake. 5,000 ft. alt. June.
467. bicolor, S. Watson.
468. macrocarpum, Nutt.
469. (?) nudicaule, Nutt. (?)
470. (?) villosum, Nutt.
471. Heracleum lanatum, Mx.
472. Coriandrum sativum, L.
473. Cornus pubescens, Nutt.
474. Linnæa borealis, Gronov. Uintas, Bear River Cañon. 8,000 ft. alt. August.
475. Symphoricarpus montanus, HBK.
476. Lonicera involucrata, Banks.
477. Utahensis, S. Watson. Cottonwood Cañon, Wahsatch. 9,000 ft. alt. August.
478. Sambucus racemosa, L., Var. pubens.
479. glauca, Nutt.
480. Galium bifolium, S. Watson.

481. Galium Aparine, L.
482. asperrimum, Gray. Ruby Valley, Nevada. 6,000 ft. alt. August.
483. Bloomeri, Gray.
484. multiflorum, Kell. (*G. hypotrichium*, Gray.)
485. trifidum, L.
486. triflorum, Mx.
487. boreale, L.
488. Valeriana dioica, L., Var. sylvatica. (*V. sylvatica*, Rich.)
489. edulis, Nutt.
490. Plectritis congesta, DC.
491. Eupatorium occidentale, Hook.
492. Brickellia oblongifolia, Nutt., Var. abbreviata, Gray. W. Humboldt Mts., Nevada. 8,000 ft. alt. September.
493. linifolia, D. C. Eaton. Jordan Valley, Utah, on American Fork. 4,500 ft. alt. July.
494. microphylla, Gray.
495. Californica, Gray.
496. grandiflora, Nutt.
497. Aster adscendens, Lindl., Var. Parryi, D. C. Eaton.
498. Nuttallii, T. & G.
499. falcatus, Lindl.
500. Form.
501. Form.
502. simplex, Willd. Truckee Meadows, Nevada. 4,500 ft. alt. July.
503. carneus, Nees., Var. subasper, T. & G. Huntington Valley, Nevada. 6,000 ft. alt. August.
504. Douglasii, Lindl.
505. Form.
506. æstivus, Aiton. Goose Creek Valley, Nevada. 6,000 ft. alt. September.
507. Kingii, D. C. Eaton. Cottonwood Cañon, Wahsatch. 9,000 ft. alt. August.
508. glacialis, Nutt.
509. Form.
510. asperugineus, D. C. Eaton. E. Humboldt Mts., Nevada. 9,000 ft. alt. August.
511. salsuginosus, Rich.
512. Var. scaposus, T. & G. Cottonwood Cañon, Wahsatch. 9,500 ft. alt. July.
513. pulchellus, D. C. Eaton. Clover Peak, Nevada. 9,000 ft. alt. September.
514. elegans, T. & G.
515. Var. Engelmanni, D. C. Eaton. (*A. Engelmanni*, Gray.)

516. Aster glaucus, T. & G.
517. angustus, T. & G.
518. Townsendia scapigera, D. C. Eaton.
519. Var. caulescens, D. C. Eaton..
520. strigosa, Nutt. Stansbury Island, shore. June.
521. Machæranthe racanescens, Gray.
522. Form. Bear River Cañon, Uintas. 8,000 ft. alt. August.
523. Form; near Var. latifolia, T. & G.
524. Form. (*Dieteria viscosa*, Nutt.)
525. Form; near *Dieteria incana*, T. & G.
526. Diplopappus ericoides, T. & G.
527. alpinus, Nutt.
528. Erigeron Canadense, L.
529. compositum, Pursh.
530. Var. discoideum, Gray.
531. Bloomeri, Gray.
532. grandiflorum, Hook. Bear River Cañon, Uintas. 11,000 ft. alt. August.
533. Smaller form.
534. ursinum, D. C. Eaton. Bear River Cañon, Uintas. 10,000 ft. alt. August.
535. acre, L.
536. lonchophyllum, Hook. (*E. racemosum*, Nutt.)
537. Bellidiastrum, Nutt.
538. macranthum, Nutt.
539. glabellum, Nutt.
540. Form.
541. pumilum, Nutt.
542. concinnum, T. & G.
543. Var. condensatum, D. C. Eaton.
544. Var. aphanactis, Gray.
545. Breweri, Gray. Star Peak, Nevada. 10,000 ft. alt. September.
546. ochroleucum, Nutt.
547. stenophyllum, D. C. Eaton. Cottonwood Cañon, Wahsatch. 8,500 ft. alt. August.
548. cæspitosum, Nutt.
549. Form.
550. Dwarf form. (?) Star Peak, Nevada. 9,000 ft. alt. September.
551. Gutierrezia Euthamiæ, T. & G.
552. Solidago Virga-aurea, L., Var. multiradiata, T. & G.
553. Form. With the last.
554. Alpine form. Peak of Uintas. 12,500 ft. alt. August.

555. Solidago stricta, Aiton. E. Humboldt Mts., Nevada. 6,500 ft. alt. August.
556. Guiradonis, Gray, Var. spectabilis, D. C. Eaton.
557. pumila, T. & G.
558. nemoralis, Aiton.
559. Form.
560. elongata, Nutt.
561. gigantea, Aiton. E. Humboldt Mts., Nevada. 6,500 ft. alt. August.
562. Form.
563. occidentalis, T. & G.
564. Linosyris graveolens, T. & G.
565. Var. β., T. & G.
566. viscidiflora, T. & G.
567. Var. serrulata, Torr.
568. Var. latifolia, D. C. Eaton.
569. Var. puberula, D. C. Eaton.
570. Howardii, Parry, Var. Nevadensis, Gray. W. Humboldt Mts., Nevada. 8,000 ft. alt. September.
571. Aplopappus nanus, D. C. Eaton. (*Ericameria*, Nutt.)
572. suffruticosus, Gray.
573. Macronema, Gray. E. Humboldt Mts., Nevada. 10,000 ft. alt. August.
574. lanceolatus, T. & G.
575. Var. Vaseyi, Parry.
576. tenuicaulis, D. C. Eaton. Ruby Valley, Nevada. 6,000 ft. alt. August.
577. uniflorus, T. & G.
578. acaulis, Gray.
579. Var. glabratus, D. C. Eaton.
580. Parryi, Gray.
581. Nuttallii, T. & G. Weber Valley, Utah. 6,000 ft. alt. July.
582. Grindelia squarrosa, Dunal.
583. Var. grandiflora, Gray. Ruby Valley, Nevada. 6,000 ft. alt. September.
584. Chrysopsis villosa, Nutt., Var. hispida, Gray. Wahsatch. 5,000 ft. alt. July.
585. Form.
586. Var. foliosa, D. C. Eaton. (*C. foliosa*, Nutt.)
587. Laphamia Stansburii, Gray. Stansbury Island, Salt Lake. 5,000 ft. alt. June.
588. Iva axillaris, Pursh.
589. Ambrosia artemisiæfolia, L. Humboldt Pass, Nevada. 6,000 ft. alt. September.

590. Ambrosia ptilostachya, DC. Jordan Valley, Utah. 4,500 ft. alt. August.
591. Franseria Hookeriana, Nutt.
592. Hymenoclea monogyra, T. & G. Truckee Pass, Nevada. 4,500 ft. alt. May.
593. Xanthium strumarium, L., Var. echinatum, Gray.
594. Wyethia amplexicaulis, Nutt.
595. Balsamorrhiza Hookeri, Nutt.
596. hirsuta, Nutt.
597. macrophylla, Nutt.
598. sagittata, Nutt.
599. Rudbeckia occidentalis, Nutt.
600. Helianthus exilis, Gray. Soda Lake, Nevada. 4,000 ft. alt. July.
601. lenticularis, Dougl.
602. Nuttallii, T. & G.
603. giganteus, L., Var. Utahensis, D. C. Eaton. Parley's Park, Wahsatch. 6,000 ft. alt. July.
604. Helianthella uniflora, T. & G. Bear River Cañon, Uintas. 8,000 ft. alt. July.
605. multicaulis, D. C. Eaton.
606. Heliomeris multiflora, Nutt.
607. Chænactis macrantha, D. C. Eaton.
608. Douglasii, H. & A.
609. Alpine form.
610. stevioides, H. & A.
611. carphoclinia, Gray. Trinity Mts., Nevada. 4,800 ft. alt. May.
612. Hymenopappus tenuifolius, Pursh.
613. Bahia leucophylla, DC.
614. Burrielia nivea, D. C. Eaton.
615. Actinella acaulis, Nutt.
616. Richardsonii, Nutt. Huntington Valley, Nevada. 6,000 ft. alt. August.
617. Var. canescens, D. C. Eaton. E. Humboldt Mts., Nevada. 9,000 ft. alt. Aug.
618. Helenium autumnale, L.
619. Form. Mouth of American Fork Cañon, Utah Valley. 5,000 ft. alt. August.
620. Hoopesii, Gray.
621. Rigiopappus leptocladus, Gray.
622. Layia glandulosa, H. & A.
623. heterotricha, H. & A.
624. Lagophylla ramosissima, Nutt.
625. Madia racemosa, T. & G.
626. Amida hirsuta, Nutt. Parley's Park, Wahsatch. 6,000 ft. alt. July.

627. Maruta Cotula, DC.
628. Achillea Millefolium, L.
629. Var. rosea, D. C. Eaton.
630. Matricaria discoidea, DC.
631. Tanacetum canum, D. C. Eaton. E. Humboldt Mts., Nevada. 6,500 ft. alt. July.
632. diversifolium, D. C. Eaton.
633. Artemisia spinescens, D. C. Eaton. (*Picrothamnus desertorum*, Nutt.)
634. dracunculoides, Pursh.
635. tridentata, Nutt.
636. arbuscula, Nutt. E. Humboldt Mts., Nevada. 9,000 ft. alt. August.
637. trifida, Nutt.
638. discolor, Dougl.
639. Ludoviciana, Nutt., Var. Douglasiana, D. C. Eaton.
640. Var. latifolia, T. & G.
641. Var. latiloba, Nutt.
642. biennis, Willd.
643. frigida, Willd.
644. scopulorum, Gray.
645. Gnaphalium luteo-album, L., Var. Sprengelii, D. C. Eaton. (*G. Sprengelii*, H. & A.)
646. palustre, Nutt.
647. Antennaria margaritacea, R. Br. Cottonwood Cañon, Wahsatch. 6,000 ft. alt. July.
648. Carpathica, R. Br. Havallah Mts., Nevada. 7,500 ft. alt. June.
649. Var. pulcherrima, Hook.
650. alpina, Gærtn.
651. dioica, Gærtn.
652. Var. rosea, D. C. Eaton.
653. dimorpha, T. & G., Var. Nuttallii, D. C. Eaton.
654. Var. macrocephala, D. C. Eaton.
655. Arnica longifolia, D. C. Eaton.
656. angustifolia, Vahl. Havallah Mts., Nevada. 5,000 ft. alt. June.
657. Chamissonis, Less.
658. mollis, Hook.
659. latifolia, Bong.
660. cordifolia, Hook.
661. Senecio lugens, Rich., Var. Hookeri, D. C. Eaton. (*S. lugens*, Hook.)
662. Var. Parryi, D. C. Eaton.
663. Var. exaltatus, D. C. Eaton. Bear River Cañon, Uintas. 9,000 ft. alt. August.
664. hydrophilus, Nutt.

665. Senecio triangularis, Hook.
666. Andinus, Nutt.
667. aureus, L.
668. Var. obovatus, T. & G.
669. Form.
670. Var. borealis, T. & G.
671. Var. croceus, Gray.
672. canus, Hook.
673. Var. eradiatus, D. C. Eaton. E. Humboldt Mts., Nevada. 10,000 ft. alt. August.
674. Fendleri, Gray.
675. multilobatus, T. & G.
676. eremophilus, Rich.
677. Fremontii, T. & G.
678. amplectens, Gray, Var. taraxicoides, Gray. Clover Mts. 10,000 ft. alt. Sept.
679. Form. Same locality.
680. Psathyrotes annua, Gray.
681. Tetradymia canescens, DC.
682. Var. inermis, Gray.
683. glabrata, T. & G.
684. Nuttallii, T. & G. Stansbury Island, Salt Lake. 4,500 ft. alt. June.
685. spinosa, H. & A.
686. Cirsium undulatum, Spreng.
687. Var. albescens, D. C. Eaton. Stansbury Island, Salt Lake. 4,300 ft. alt. June.
688. foliosum, DC. (*C. edule*, Nutt.)
689. Drummondii, T. & G. Caulescent form.
690. Acaulescent. (*C. acaule*, Var. *Americanum*, Gray.)
691. eriocephalum, Gray, Var. leiocephalum, D. C. Eaton.
692. Calais linearifolia, DC.
693. macrochæta, Gray. (?)
694. nutans, Gray.
695. Var. latifolia, D. C. Eaton.
696. major, Gray.
697. Anisocoma acaulis, Gray.
698. Stephanomeria minor, Nutt.
699. myrioclada, D. C. Eaton.
700. paniculata, Nutt.
701. exigua, Nutt. (*Hemiptilium Bigelovii*, Gray.)
702. pentachæta, D. C. Eaton. Humboldt Valley, Nevada. 4,500 ft. alt. September.
703. Hieracium Scouleri, Hook.
704. albiflorum, Hook.

705. Hieracium triste, Willd.
706. Lygodesmia juncea, Don. Unionville Valley, Nevada. 5,000 ft. alt. June.
707. Var. dianthopsis, D. C. Eaton.
708. spinosa, Nutt.
709. Malacothrix Californica, DC., Var. glabrata, Gray. Foot-hills of Trinity Mts. 4,500 ft. alt. May.
710. sonchoides, T. & G.
711. obtusa, Benth. Stansbury Island. 4,300 ft. alt. June.
712. Crepis runcinata, T. & G.
713. glauca, T. & G.
714. Andersonii, Gray.
715. occidentalis, Nutt.
716. Var. gracilis, D. C. Eaton.
717. acuminata, Nutt.
718. Macrorrhynchus glaucus, D. C. Eaton, Var. laciniatus, D. C. Eaton.
719. troximoides, T. & G.
720. grandiflorus, T. & G. Foot-hills, Salt Lake City. May.
721. heterophyllus, Nutt.
722. Taraxacum Dens-leonis, Desf.
723. palustre, DC. Uintas, above Bear River. 12,500 ft. alt. August.
724. phymatocarpum, J. Vahl. Same locality.
725. Glyptopleura marginata, D. C. Eaton.
726. Mulgedium pulchellum, Nutt.
727. Sonchus asper, Vill.
728. Downingia pulchella, Torr. Truckee Meadows, Glendale, Nevada. July.
729. Campanula rotundifolia, L.
730. uniflora, L. Uintas, above Bear River. 11–12,000 ft. alt. August.
731. Specularia perfoliata, A. DC.
732. Heterocodon rariflorum, Nutt.
733. Vaccinium uliginosum, L.
734. cæspitosum, Michx.
735. myrtilloides, Michx.
736. Myrtillus, L., Var. microphyllum, Hook.
737. Arctostaphylos Uva-Ursi, Spreng.
738. glauca, Lindl.
739. Gaultheria Myrsinites, Hook.
740. Kalmia glauca, Ait., Var. microphylla, Hook.
741. Ledum glandulosum, Nutt.
742. Pyrola rotundifolia, L., Var. incarnata, Hook.
743. chlorantha, Swartz.
744. secunda, L.

745. Moneses uniflora, Gray.
746. Chimaphila umbellata, Nutt.
747. Pterospora Andromedea, Nutt.
748. Plantago eriopoda, Torr.
749. Bigelovii, Gray. Jordan Valley, Utah. June.
750. Patagonica, Jacq., Var. gnaphalioides, Gray.
751. Primula Parryi, Gray.
752. Androsace septentrionalis, L.
753. Alpine form.
754. occidentalis, Pursh.
755. Dodecatheon Meadia, L.
756. Alpine form.
757. Var. frigidum. (*D. frigidum*, Ch. & Sch.)
758. Lysimachia ciliata, L.
759. Glaux maritima, L.
760. Samolus Valerandi, L., Var. Americanus, Gray. Antelope Island Salt Lake. 4,500 ft. alt. June.
761. Utricularia vulgaris, L., Var. Americana, Gray. Ruby Lake, Nevada. 6,000 ft. alt. August.
762. minor, L.
763. Phelipæa erianthera, Eng.
764. Aphyllon uniflorum, T. & G. Wahsatch Mts. 7,000 ft. alt. June.
765. fasciculatum, T. & G.
766. Verbascum Thapsus, L.
767. Antirrhinum Kingii, S. Watson.
768. Scrophularia nodosa, L.
769. Collinsia parviflora, Dougl.
770. Pentstemon glaber, Pursh., Var. occidentalis, Gray.
771. Var. Utahensis, S. Watson.
772. cyananthus, Hook. Wahsatch Mts. 5,000 ft. alt. May.
773. Fremonti, T. & G., Var. Parryi, Gray.
774. cæruleus, Nutt.
775. acuminatus, Dougl. Near Humboldt Lake, Nevada. 4,000 ft. alt. May.
776. centranthifolius, Benth. Provo Cañon, Wahsatch. 6,000 ft. alt. July.
777. cæspitosus, Nutt. Near Evanston, Utah. 6,000 ft. alt. July.
778. cristatus, Nutt.
779. Palmeri, Gray.
780. humilis, Nutt. (?)
781. Var. (?)
782. glaucus, Grah., Var. stenosepalus, Gray.
783. confertus, Dougl., Var. cæruleo-purpureus, Gray.
784. Alpine form.
785. deustus, Dougl.

786. Pentstemon heterophyllus, Lindl. Provo Cañon, Wahsatch. 6,000 ft. alt. July.
787. Var. latifolius, S. Watson.
788. Kingii, S. Watson.
789. Mimulus Lewisii, Pursh.
790. luteus, L.
791. Depauperate form.
792. Var. alpinus, Gray. E. Humboldt Mts., Nevada. 9,000 ft. alt. August.
793. primuloides, Benth. E. Humboldt Mts., Nevada. 8,000 ft. alt. August.
794. floribundus, Dougl.
795. moschatus, Dougl.
796. pilosus, S. Watson. (*Herpestis*, Bth.) Truckee Bottom. July.
797. rubellus, Gray.
798. Var. latiflorus.
799. Eunanus Fremonti, DC.
800. Gratiola Virginiana, L. Truckee Valley, Nevada. 4,000 ft. alt. July.
801. Limosella aquatica, L.
802. Synthyris pinnatifida, S. Watson. Wahsatch; American Fork Cañon. 9,000 ft. alt. August.
803. Veronica Anagallis, L.
804. Americana, Schwein.
805. alpina, L.
806. serpyllifolia, L.
807. peregrina, L.
808. Castilleia linariæfolia, Bth.
809. affinis, H. & A., Var. minor, Gray.
810. parviflora, Bong.
811. pallida, Kunth.
812. Var.
813. flava, S. Watson. Upper Bear River Valley, Utah. 7,000 ft. alt. July.
814. Orthocarpus Tolmiei, H. & A.
815. luteus, Nutt.
816. Cordylanthus capitatus, Nutt. Clover Mts., Nevada. 6,500 ft. alt. September.
817. ramosus, Nutt.
818. Kingii, S. Watson.
819. Pedicularis Grœnlandica, Retz.
820. bracteosa, Benth.
821. racemosa, Dougl.
822. Verbena hastata, L.
823. bracteosa, Mx.

824. Mentha Canadensis, L.
825. Lycopus sinuatus, Ell. Wahsatch; American Fork Cañon. 6,000 ft. alt. August.
826. Monardella odoratissima, Benth.
827. Satureia hortensis, L. Unionville, Nevada.
828. Salvia Columbariæ, Benth.
829. Audibertia incana, Benth.
830. Lophanthus urticæfolius, Benth.
831. Nepeta Cataria, L.
832. Dracocephalum parviflorum, Nutt.
833. Brunella vulgaris, L.
834. Scutellaria resinosa, Torr.
835. galericulata, L.
836. Marrubium vulgare, L.
837. Stachys palustris, L.
838. Lithospermum longiflorum, Spreng.
839. pilosum, Nutt. (*L. ruderale*, Dougl.)
840. Mertensia oblongifolia, DC.
841. Form.
842. Sibirica, Don.
843. paniculata, Don.
844. Var. nivalis, S. Watson.
845. brevistyla, S. Watson. (*M. alpina*, Gray, in part.)
846. Amsinckia lycopsoides, Lehm.
847. Piptocalyx circumscissus, Torr.
848. Form.
849. Eritrichium villosum, DC., Var. aretioides, Hook. Uintas. 12,000 ft. alt. August.
850. angustifolium, Torr.
851. Californicum, DC.
852. glomeratum, DC.
853. Var. fulvocanescens, S. Watson.
854. Kingii, S. Watson.
855. fulvum, A. DC.
856. micranthum, Torr. Stansbury Island, shore. June.
857. leiocarpum, S. Watson. (*Krynitzkia*, F. & M.)
858. Maturer form.
859. pterocaryum, Torr.
860. Echinospermum deflexum, Lehm., Var. floribundum, S. Watson. (*E. floribundum*, Lehm.)
861. Redowskii, Lehm., Var. occidentale, S. Watson. (*E. Redowskii*, Gray's Man.)
862. Var. strictum, S. Watson. (*E. strictum*, Nees.)
863. Coldenia Nuttallii, Hook.
864. Heliotropium Curassavicum, L.

865. Hydrophyllum macrophyllum, Nutt., Var. occidentale, S. Watson.
866. Form.
867. capitatum, Dougl.
868. Var. alpinum, S. Watson. E. Humboldt Mts., Nevada. 9,000 ft. alt. July.
869. Nemophila parviflora, Dougl.
870. Phacelia circinata, Jacq.
871. Lower form.
872. humilis, T. & G. Havallah Mts., Nevada. 5,500 ft. alt. June.
873. crenulata, Torr. Trinity Mts., Nevada. 4,300 ft. alt. May.
874. tanacetifolia, Benth.
875. Menziesii, Torr.
876. sericea, Gray.
877. curvipes, Torr.
878. pusilla, Torr.
879. Ivesiana, Torr.
880. bicolor, Torr. Trinity Mts., Nevada. 4,300 ft. alt. May.
881. gymnoclada, Torr.
882. crassifolia, Torr. Reese River Valley, Nevada. 5,000 ft. alt. July.
883. Conanthus aretioides, S. Watson. (*Euploca ?*, H. & A.)
884. Emmenanthe parviflora, Gray. Truckee Pass, Nevada. 4,300 ft. alt. May.
885. glandulifera, Torr. Virginia Mts., Nevada. 5,000 ft. alt. July.
886. glaberrima, Torr.
887. Tricardia Watsoni, Torr.
888. Nama demissa, Gray.
889. Phlox canescens, T. & G.
890. cæspitosa, Nutt. Clover Mts., Nevada. 10,000 ft. alt. September.
891. Var. rigida, Gray.
892. Near P. Douglasii, Hook.
893. Douglasii, Hook.
894. longifolia, Gray.
895. Var. Stansburyi, Gray.
896. Subvar. brevifolia, Gray.
897. Collomia grandiflora, Dougl.
898. linearis, Nutt.
899. Near Var. subulata, Gray.
900. tenella, Gray.
901. gracilis, Dougl.
902. leptalea, Gray. Truckee Valley, near Glendale. July.
903. Gilia liniflora, Benth., Var. pharnaceoides, Gray.

904. Gilia pusilla, Benth., Var. Californica, Gray. Near typical form.
905. Bigelovii, Gray.
906. nudicaulis, Gray. Near Empire City, Nevada. 4,500 ft. alt. April.
907. Nuttallii, Gray.
908. Watsoni, Gray.
909. pungens, Benth.
910. Var. squarrosa, Gray.
911. intertexta, Steud.
912. minima, Gray. Parley's Park, Wahsatch. 6,000 ft. alt.
913. Breweri, Gray.
914. floccosa, Gray.
915. filifolia, Nutt., Var. diffusa, Gray.
916. congesta, Hook.
917. Var. crebrifolia, Gray. Bear River Valley, near Evanston. 6,000 ft. alt. July.
918. pumila, Nutt. Truckee Mts., Nevada. 4,500 ft. alt. May.
919. polycladon, Torr.
920. aggregata, Spreng.
921. Form with white flowers.
922. tenerrima, Gray. Bear River Valley, near Evanston. 6,000 ft. alt. July.
923. inconspicua, Dougl.
924. Var. sinuata, Gray.
925. Form.
926. Near Var. arenaria, Gray.
927. leptomeria, Gray.
928. micromeria, Gray.
929. campanulata, Gray. Truckee Valley, Nevada. 4,000 ft. alt. May.
930. Polemonium confertum, Gray.
931. Var. mellitum, Gray. E. Humboldt Mts., Nevada. 10,500 ft. alt. August.
932. cæruleum, L.
933. Var. foliosissimum, Gray.
934. micranthum, Benth. Near Carson City, Nevada. 4,500 ft. alt. April.
935. Calystegia sepium, R. Br.
936. Cressa Cretica, L., Var. Truxillensis, Chois. On Bear River, Salt Lake Valley. October.
937. Cuscuta tenuiflora, Eng. Humboldt Pass, Nevada. 6,000 ft. alt. September.
938. Californica, Chois., Var. graciliflora, Eng.
939. Solanum nigrum, L.
940. Physalis pubescens, Willd.
941. Oryctes Nevadensis, S. Watson. Truckee Valley, Nevada. 4,000 ft. alt. May.

942. Lycium Andersonii, Gray. Carrington Island, Salt Lake. June.
943. Datura Stramonium, L.
944. Nicotiana attenuata, Torr.
945. Erythræa Nuttallii, S. Watson.
946. Gentiana Amarella, L.
947. Var. stricta. (*G. acuta*, Var. *stricta*, Gris.)
948. heterosepala, Eng.
949. detonsa, Fries.
950. frigida, Hænke, Var. algida, Pall. Bear River Cañon, Uintas. 12,000 ft. alt. August.
951. affinis, Sm.
952. Parryi, Eng.
953. Frasera speciosa, Dougl.
954. Swertia perennis, L.
955. Menyanthes trifoliata, L.
956. Hesperochiron Californicus, S. Watson. (*Ourisia*, Benth.) Near Carson City, Nevada. 5,000 ft. alt. April.
957. Apocynum androsæmifolium, L.
958. cannabinum, L.
959. Asclepias fascicularis, Decsne.
960. speciosa, Torr.
961. cryptoceras, S. Watson. (*Acerates latifolia*, Torr.)
962. Acerates decumbens, Decsne.
963. Mirabilis Californica, Gray.
964. Oxybaphus angustifolius, Sweet.
965. Abronia fragrans, Nutt.
966. turbinata, Torr.
967. cycloptera, Gray.
968. Hermidium alipes, S. Watson.
969. Chenopodium album, L.
970. Form.
971. Var. leptophyllum, Moq.
972. Form.
973. Fremonti, S. Watson.
974. hybridum, L.
975. Botrys, L. Willow Creek Cañon, Wahsatch. 5,000 ft. alt. July.
976. Blitum capitatum, L.
977. Form.
978. polymorphum, C. A. Mey., Var. humile, Moq.
979. Monolepis chenopodioides, Moq.
980. pusilla, Torr.
981. Obione canescens, Moq.
982. With more dilated bracts.
983. confertifolia, Torr.
984. Torreyi, S. Watson.

985. Obione argentea, Moq.
986. phyllostegia, Torr.
987. truncata, Torr. Banks of Truckee River. 4,000 ft. alt. July.
988. pusilla, Torr. Humboldt Valley; alkali flat. 5,000 ft. alt. September.
989. Grayia polygaloides, H. & A.
990. Eurotia lanata, Moq.
991. Kochia prostrata, Schrad.
992. Form.
993. Corispermum hyssopifolium, L.
994. Salicornia herbacea, L.
995. Halostachys occidentalis, S. Watson.
996. Suæda maritima, Dumort.
997. depressa, Ledeb. Upper Humboldt Valley, Nevada. 5,500 ft. alt. September.
998. fruticosa, Forsk., Var. (?)
999. Schoberia occidentalis, S. Watson. Ruby Valley, Nevada. 6,000 ft. alt. September.
1000. Sarcobatus vermiculatus, Torr.
1001. Amarantus paniculatus, L. Unionville, Nevada.
1002. retroflexus, L.
1003. albus, L.
1004. Prostrate form.
1005. Nitrophila occidentalis, S. Watson. (*Banalia*, Moq.)
1006. Paronychia pulvinata, Gray. Uintas, above Bear River. 12,000 ft. alt. August.
1007. Eriogonum cæspitosum, Nutt.
1008. Reduced form. (*E. Andinum*, Nutt.)
1009. sphærocephalum, Dougl. Regan's Valley, Nevada. 5,000 ft. alt. June.
1010. heracleoides, Nutt.
1011. Var. minus, Benth.
1012. umbellatum, Torr.
1013. Form.
1014. Var. monocephalum, T. & G.
1015. acaule, Nutt. Foot-hills of Holmes Creek Valley, Nevada. 6,000 ft. alt. September.
1016. ovalifolium, Nutt.
1017. Reduced form. E. Humboldt Mts., Nevada. 10,000 ft. alt.
1018. Var. Pah-Ute Mts., Nevada. 5,000 ft. alt. June.
1019. Var. tenuius, Benth. Holmes Creek Valley, Nevada. 6,000 ft. alt. Sept.
1020. Kingii, T. & G.

1021. Eriogonum Kingii, Var. laxifolium, T. & G.
1022. elatum, Dougl.
1023. microthecum, Nutt.
1024. Alpine form. E. Humboldt Mts., Nevada. 10,000 ft. alt. August.
1025. Form. Pah-Ute Mts., Nevada. 5,000 ft. alt.
1026. Form, approaching Var. Fendlerianum. Wahsatch Mts. 6,000 ft. alt. Aug.
1027. brevicaule, Nutt.
1028. racemosum, Nutt. Wahsatch Mts. 6,000 ft. alt. July.
1029. vimineum, Dougl. Virginia Mts., Nevada. 6,000 ft. alt. August.
1030. gracile, Benth., Var. effusum, T. & G.
1031. Form.
1032. Plumatella, Dur. & Hilg.
1033. deflexum, Torr.
1034. nutans, T. & G.
1035. Watsoni, T. & G. E. Humboldt Mts., Nevada. 5,000 ft. alt. September.
1036. cernuum, Nutt., Var. tenue, T. & G.
1037. pusillum, T. & G. Foot-hills of Trinity Mts., Nevada. 5,000 ft. alt. May.
1038. inflatum, Torr. Near Humboldt Lake, Nevada.
1039. angulosum, Benth.
1040. Oxytheca dendroidea, Nutt., Var. (*O. foliosa*, Nutt.) Monitor Valley, Nevada. 5,000 ft. alt. July.
1041. Var. Near the typical form.
1042. Watsoni, T. & G. Monitor Valley, Nevada. 5,000 ft. alt. July.
1043. perfoliata, T. & G.
1044. Chorizanthe brevicornu, Torr. Foot-hills near Big Bend of the Truckee. 4,000 ft. alt. May.
1045. rigida, Torr.
1046. Watsoni, T. & G.
1047. Oxyria digyna, Campd.
1048. Rumex venosus, Pursh.
1049. longifolius, DC.
1050. Brittanica, L. Jordan Valley, Utah. July.
1051. salicifolius, Weinm.
1052. Var. (?)
1053. maritimus, L.
1054. paucifolius, Nutt. Parley's Park, Wahsatch. 6,000 ft. alt. June.
1055. Polygonum aviculare, L.
1056. Var. latifolium.

1057. Polygonum aviculare, Var. erectum, Roth.
1058. minimum, S. Watson.
1059. tenue, Mx.
1060. Var.
1061. Var. latifolium, Eng. Clover Mts., Nevada. 9,000 ft. alt. September.
1062. coarctatum, Dougl., Var. minus, Meisn.
1063. Slender form.
1064. amphibium, L.
1065. Var. terrestre, Willd.
1066. Persicaria, L.
1067. viviparum, L.
1068. Bistorta, L., Var. oblongifolium, Meisn.
1069. Var. linearifolium, S. Watson. E. Humboldt Mts., Nevada. 9,500 ft. alt. August.
1070. Convolvulus, L. Jordan Valley, Utah.
1071. polymorphum, Ledeb., Var. alpinum, Ledeb. E. Humboldt Mts., Nevada. August.
1072. Shepherdia Canadensis, Nutt.
1073. argentea, Nutt.
1074. Eleagnus argentea, Pursh. Bear River, near Evanston, Utah.
1075. Comandra pallida, DC.
1076. Ceratophyllum demersum, L. (?) Spanish Spring, near Glendale, Nevada. 4,500 ft. alt. December.
1077. Euphorbia ocellata, Dur. & Hilg.
1078. serpyllifolia, Pers.
1079. glyptosperma, Eng.
1080. dictyosperma, F. & M. Antelope Island, Salt Lake. 4,300 ft. alt. June.
1081. montana, Eng.
1082. Celtis occidentalis, L., Var. pumila, Gray.
1083. Urtica dioica, L., Var. occidentalis, S. Watson.
1084. Parietaria Pennsylvanica, Muhl.
1085. Humulus Lupulus, L.
1086. Quercus alba, L., Var. Gunnisoni, Torr.
1087. Castanopsis chrysophylla, A. DC., Var. minor, Benth. Washoe Mts., Nevada. 6,500 ft. alt. April.
1088. Betula occidentalis, Hook.
1089. glandulosa, Mx.
1090. Alnus incana, Willd., Var. glauca, Ait.
1091. Salix longifolia, Muhl.
1092. Form.
1093. Approaching S. Hindsiana, Benth. Near Carson City, Nevada. 5,000 ft. alt. April.
1094. Var. argyrophylla, Nutt.
1095. cordata, Muhl., near Var. angustata, And.

1096. Salix cordata, Var.
1097. Var. (?)
1098. ——? Allied to S. cordata, Muhl.
1099. glauca, L., Var. pullata, And.
1100. arctica, Br., near Var. Brownei, And.
1101. phlebophylla, And.
1102. reticulata, L.
1103. ——??
1104. Populus tremuloides, Mx.
1105. monilifera, Ait.
1106. balsamifera, L., Var. angustifolia, S. Watson. (*P. angustifolia*, James.)
1107. trichocarpa, ~~T. & G.~~
1108. Ephedra antisyphilitica, C. A. Mey.
1109. Pinus monophylla, Torr.
1110. contorta, Dougl., Var. latifolia, Eng.
1111. ponderosa, Dougl.
1112. Balfouriana, Murray. E. Humboldt Mts., Nevada. 10,000 ft. alt.
1113. flexilis, James.
1114. Abies Engelmanni, Parry.
1115. Menziesii, Lindl.
1116. amabilis, Forbes.
1117. grandis, Lindl.
1118. Douglasii, Lindl.
1119. Libocedrus decurrens, Torr. Washoe Mts., Nevada. 7,000 ft. alt. April.
1120. Juniperus communis, L., Var. alpina, L. E. Humboldt Mts., Nevada. August.
1121. Virginiana, L.
1122. occidentalis, Hook.
1123. Lemna trisulca, L.
1124. Valdesiana, (?) (*L. Torreyi*, Aust.) Summit Springs, Coyote Mts., Nevada. 5,000 ft. alt. June.
1125. minor, L.
1126. polyrrhiza, L. Truckee River, Nevada. 4,000 ft. alt. July.
1127. Typha latifolia, L.
1128. Sparganium eurycarpum, Eng.
1129. minimum, Bauh. Uintas, Bear River Cañon. Aug.
1130. Zannichellia palustris, L. Parley's Park, Wahsatch. 6,000 ft. alt. July.
1131. Potamogeton natans, L.
1132. rufescens, Schrad. Bear River, Uintas. 8,000 ft. alt. August.
1133. lonchites, Tuck. Humboldt Pass, Nevada. 6,000 ft. alt. September.

1134. Potamogeton gramineus, L., Var. heterophyllus, Fries. Ruby Lake, Nevada. 6,000 ft. alt. August.
1135. perfoliatus, L., Var. lanceolatus, Robbins. Truckee River, Nevada. 4,000 ft. alt. July.
1136. pusillus, L., Var. vulgaris, Fries. (?) Bear River, Uintas. 8,000 ft. alt. August.
1137. Subvar. interruptus, Robbins. Parley's Park, Wahsatch. 6,000 ft. alt. July.
1138. pectinatus, L. Thousand Spring Valley, Nevada. 6,000 ft. alt. September.
1139. Doubtful form. Near Humboldt Lake, Nevada. 4,000 ft. alt. August.
1140. Var. Ruby Lake. 6,000 ft. alt. July.
1141. Var. Near Humboldt Lake, Nevada. 4,000 ft. alt. August.
1142. Var. (?) latifolius, Robbins. With the last.
1143. marinus, L., Var. (?) occidentalis, Robbins. Ruby Lake, Nevada. 6,000 ft. alt. August.
1144. Doubtful specimens of same. Bear River, Uintas. 8,000 ft. alt. August.
1145. Same, or perhaps P. pectinatus. Truckee River, Nevada. 4,000 ft. alt. July.
1146. Same, or perhaps P. pectinatus, with 1139 and 1141.
1147. Triglochin palustre, L. Jordan Valley, Utah. 4,300 ft. alt.
1148. maritimum, L.
1149. Alisma Plantago, L., Var. Americanum, Gray. Truckee River, Nevada. 4,000 ft. alt. July.
1150. Var.
1151. Sagittaria variabilis, Eng.
1152. Habenaria hyperborea, Br.
1153. dilatata, Gray.
1154. Var.
1155. fœtida, S. Watson. (*Platanthera*, Gey.)
1156. Spiranthes Romanzoffiana, Cham.
1157. Listera convallarioides, Hook. E. Humboldt Mts., Nevada. 7,000 ft. alt. August.
1158. Epipactis gigantea, Dougl. Soda Lake, Nevada. 4,000 ft. alt. July.
1159. Corallorhiza multiflora, Nutt. Wahsatch. 7,500 ft. alt. July.
1160. Iris Tolmieana, Herb.
1161. Sisyrinchium Bermudianum, L., Var. anceps, Gray.
1162. Zigadenus glaucus, Nutt.
1163. Nuttallii, Gray.
1164. paniculatus, S. Watson. (*Helonias*, Nutt. *Amianthium Nuttallii*, Var. β., Gray.)

1165. Veratrum album, L.
1166. Prosartes trachycarpa, S. Watson.
1167. Streptopus amplexifolius, DC.
1168. Smilacina racemosa, Desf., Var. amplexicaulis, S. Watson. (*S. amplexicaulis*, Nutt.)
1169. stellata, Desf.
1170. Fritillaria atropurpurea, Nutt.
1171. pudica, Spreng.
1172. Calochortus Nuttallii, T. & G.
1173. eurycarpus, S. Watson.
1174. Lloydia serotina, Reich.
1175. Erythronium grandiflorum, Pursh.
1176. Leucocrinum montanum, Nutt. Near Carson City, Nevada. 4,500 ft. alt. April.
1177. Form. Near Oreana, Humboldt Valley, Nevada. 4,500 ft. alt. June.
1178. Camassia esculenta, Lindl.
1179. Allium validum, S. Watson.
1180. brevistylum, S. Watson. On Provo River, Uintas. 8,000 ft. alt. July.
1181. reticulatum, Nutt. (?)
1182. bisceptrum, S. Watson.
1183. Nevadense, S. Watson.
1184. atrorubens, S. Watson.
1185. acuminatum, Hook.
1186. anceps, Kell.
1187. tribracteatum, Torr.
1188. Var. Andersoni, S. Watson.
1189. Milla grandiflora, Baker.
1190. maritima, S. Watson. (*Allium*, Benth.) Steamboat Springs, W. Nevada. 5,000 ft. alt. May.
1191. Luzula spadicea, DC., Var. parviflora, Ledeb.
1192. campestris, DC. Bear River Cañon, Uintas. 8,000 ft. alt. August.
1193. spicata, Desv.
1194. Juncus Balticus, Deth., Var. montanus, Eng.
1195. Near J. Lesueurii, Eng. Truckee River, Nevada. 4,000 ft. alt. July.
1196. filiformis, L.
1197. Drummondii, E. Mey.
1198. Parryi, Eng.
1199. bufonius, L.
1200. triformis, Eng., Var. uniflorus, Eng. Clover Mts., Nevada. 9,000 ft. alt. September.
1201. longistylis, Torr.
1202. nodosus, L., Var. megacephalus, Torr.

1203. Juncus Mertensianus, Bong.
1204. xiphioides, E. Mey., Var. littoralis, Eng.
1205. Var. montanus, Eng.
1206. Form.
1207. Cyperus inflexus, Muhl.
1208. phymatodes, Muhl.
1209. Eleocharis palustris, Br.
1210. Var. Huntington Valley, Nevada. 6,000 ft. alt. August.
1211. acicularis, Br. Truckee River, Nevada. 4,000 ft. alt. July.
1212. Scirpus validus, Vahl.
1213. Nevadensis, S. Watson. Soda Lake, Nevada. 4,000 ft. alt. July.
1214. maritimus, L. Humboldt Valley, Nevada.
1215. microcarpus, Presl.
1216. Fimbristylis thermalis, S. Watson. Hot Springs, Ruby Valley, Nevada. 6,000 ft. alt. August.
1217. Carex nigricans, Meyer.
1218. Pyrenaica, Wahl. Uintas, above Bear River. 10,000 ft. alt. August.
1219. scirpoidea, Mx.
1220. affinis, R. Br.
1221. disticha, Huds.
1222. stipata, Muhl. Near Farmington, Salt Lake Valley. 4,500 ft. alt. June.
1223. muricata, L. E. Humboldt Mts., Nevada. July.
1224. Var. gracilis, Boott.
1225. Douglasii, Boott.
1226. Form. brunnea, Olney.
1227. marcida, Boott.
1228. Hoodii, Boott. Wahsatch, near Salt Lake City. 5,000 ft. alt. May.
1229. tenella, Dew. Sedk.
1230. vitilis, Fries. Form. Bear River Cañon, Uintas. 8,000 ft. alt. August.
1231. elongata, L. Bear River Cañon, Uintas. Lake shore. 9,500 ft. alt. August.
1232. Bonplandii, Kth. Var. minor, Olney. With the last.
1233. lagopina, Wahl. With the last.
1234. leporina, L.
1235. festiva, Dew.
1236. arthrostachya, Olney. Truckee River, Nevada. 4,000 ft. alt. July.
1237. Var. minor, Olney. (?) Wahsatch. 9,000 ft. alt. August.

1238. Carex Liddoni, Boott.
1239. straminea, Schk. Divide above Provo River, Uintas. 10,000 ft. alt. July.
1240. limula, Fries. With 1231.
1241. vulgaris, Fries., Var. juncella, Fries.
1242. Jamesii, Torr.
1243. Var. (*C. Nebraskensis*, Dew.) Ruby Valley, Nevada. 6,000 ft. alt. September.
1244. ——— ? Washoe Valley, Nevada. 5,000 ft. alt. May.
1245. laciniata, Boott. Provo Cañon, Wahsatch. 6,000 ft. alt. July.
1246. Watsoni, Olney. Near Carson City, Nevada. 5,000 ft. alt. May.
1247. rigida, Good. Clover Mts., Nevada. 10,000 ft. alt. September.
1248. saxatilis, L., Var. major, Olney. With 1231.
1249. aurea, Nutt.
1250. Var. androgyna, Olney. Bear River Cañon, Uintas. 8,000 ft. alt. August.
1251. Magellanica, Lam. (*C. irrigua*, Sm.) With 1231.
1252. atrata, L. Bear River Cañon, Uintas. 10,000 ft. alt. Aug.
1253. Var. nigra, Olney.
1254. Buxbaumii, Wahl. With 1231.
1255. frigida, All. Wahsatch. 9,000 ft. alt.
1256. frigida, All. (?)
1257. Raynoldsii, Dew.
1258. Geyeri, Boott. Wahsatch, near Salt Lake City. 5,000 ft. alt. May.
1259. concinna, Br. Cottonwood Lake, Wahsatch. 9,000 ft. alt. July.
1260. Rossii, Boott.
1261. capillaris, L. Cottonwood Lake, Wahsatch. 9,000 ft. alt. July.
1262. lanuginosa, Mx.
1263. æmathorhyncha, Desv.
1264. aristata, Br.
1265. utriculata, Boott.
1266. Var. minor, Boott. Ruby Valley, Nevada. 6,000 ft. alt. July.
1267. Var. globosa, Olney. Thousand Spring Valley, Nevada. 6,000 ft. alt. Sept.
1268. Form. Cottonwood Lake, Wahsatch. 9,000 ft. alt. July.
1269. Unusual form. Ruby Valley, Nevada. 6,000 ft. alt. August.
1270. vesicaria, L.

1271. Carex ampullacea, Good. (?)
1272. Alopecurus aristulatus, Mx.
1273. Phleum pratense, L.
1274. alpinum, L.
1275. Vilfa cryptandra, Torr. (*Sporobolus*, Gray.) Monitor Valley, Nevada. 5,000 ft. alt. July.
1276. airoides, Trin. (*Sporobolus*, Torr.)
1277. asperifolius, Nees & Mey. (*Sporobolus*, Thurb.)
1278. ramulosus, HBK. (*Sporobolus*, Kth.) Truckee River Bottom, Nevada. 4,000 ft. alt. July.
1279. depauperata, Torr.
1280. Var. filiformis, Thurb. E. Humboldt Mts., Nevada. 7,000 ft. alt. August.
1281. Awned form. Uintas, Bear River Cañon. 8,000 ft. alt. August.
1282. Agrostis scabra, Willd.
1283. exarata, Trin.
1284. Var. (*A. microphylla*, Steud.)
1285. canina, L. Clover Mts., Nevada. 11,000 ft. alt. September.
1286. Polypogon Monspeliensis, Desf. Unionville, Nevada.
1287. Muhlenbergia glomerata, Trin.
1288. sylvatica, T. & G., Var. (?) Humboldt Pass, Nevada. 6,000 ft. alt. September.
1289. Vaseya comata, Thurb. Huntington Valley, Nevada. 6,000 ft. alt. August.
1290. Calamagrostis stricta, Trin.
1291. sylvatica, DC. E. Humboldt Mts., Nevada. 10,000 ft. alt. August.
1292. Eriocoma cuspidata, Nutt.
1293. Stipa spartea, Trin.
1294. comata, Trin.
1295. viridula, Trin.
1296. occidentalis, Thurb. Pah-Ute Mts., Nevada. 5,000 ft. alt. June.
1297. Aristida purpurea, Nutt.
1298. Spartina gracilis, Trin.
1299. Pleuraphis Jamesii, Torr.
1300. Eremochloe Kingii, S. Watson. Trinity Mts., Nevada. 4,500 ft. alt. May.
1301. Kœleria cristata, Pers. Antelope Island, Salt Lake. 4,500 ft. alt. June.
1302. Eatonia obtusata, Gray.
1303. Melica poæoides, Nutt.
1304. Reduced form.
1305. stricta, Bol.

1306. Glyceria pauciflora, Presl. Bear River Cañon, Uintas. 8,000 ft. alt. August.
1307. aquatica, Sm.
1308. distans, Wahl.
1309. Catabrosa aquatica, Beauv.
1310. Brizopyrum spicatum, Hook., Var. strictum, Gray.
1311. Poa annua, L. Wahsatch Mts. 5,000 ft. alt. May.
1312. alpina, L., Var. (?) Erect form.
1313. Nodding form.
1314. cæsia, Sm. Near Var. strictior, Gray.
1315. serotina, Ehrh. Bear River Cañon, Uintas. 7,000 ft. alt. August.
1316. flexuosa, Muhl. (?) Wahsatch, near Salt Lake City. 5,000 ft. alt. May.
1317. Kingii, S. Watson.
1318. tenuifolia, Nutt. (*Atropis Californica*, Munro ?)
1319. Andina, Nutt., (not of Trin.)
1320. Eragrostis poæoides, Beauv., Var. megastachya, Gray.
1321. Purshii, Bernh. Truckee River Bottom, Nevada. 4,000 ft. alt. July.
1322. Festuca tenella, Willd.
1323. microstachys, Nutt.
1324. ovina, L.
1325. Var. brevifolia. (*F. brevifolia*, Br.) Clover Mts., Nevada. 11,000 ft. alt. September.
1326. Bromus breviaristatus, Thurb. (?) (*Ceratochloa*, Hook.)
1327. More glabrate form.
1328. ciliatus, L. E. Humboldt Mts., Nevada. 6,000 ft. alt. August.
1329. Phragmites communis, L.
1330. Triticum repens, L.
1331. caninum, L. W. Humboldt Mts., Nevada. Not present (discard).
1332. strigosum, Steud.
1333. Hordeum jubatum, L.
1334. pratense, Huds.
1335. Himalayense, Ritt., Var. Ægiceras, Steud. Antelope Island, Salt Lake.
1336. Elymus condensatus, Presl.
1337. Sitanion, Schult. (*Sitanion elymoides*, Raf.)
1338. Taller form. Carrington Island, Salt Lake. 4,300 ft. alt. June.
1339. Danthonia Californica, Bol. Wahsatch, above Parley's Park. 7,000 ft. alt. June.
1340. Reduced form.
1341. Avena fatua, L. Unionville Valley, Nevada.
1342. sativa, L.

1343. Trisetum subspicatum, Beauv.
1344. Aira cæspitosa, L.
1345. danthonioides, Trin. Near Salt Lake City. 4,500 ft. alt.
1346. Hierochloa borealis, R. & S. Bear River Cañon, Uintas. 8,500 ft. alt. August.
1347. Phalaris arundinacea, L.
1348. Beckmannia erucæformis, Host.
1349. Panicum capillare, L.
1350. dichotomum, L. Hot Springs, Ruby Valley, Nevada. 6,000 ft. alt. August.
1351. Crus-galli, L.
1352. Setaria viridis, Beauv.
1353. Cenchrus tribuloides, L. Utah Valley. 5,000 ft. alt.
1354. Equisetum arvense, L.
1355. lævigatum, A. Braun.
1356. robustum, A. Braun.
1357. Polypodium vulgare, L.
1358. Adiantum pedatum, L. Wahsatch, above Cottonwood Cañon. 6–7,000 ft. alt.
1359. Pteris aquilina, L.
1360. Cheilanthes lanuginosa, Nutt.
1361. Pellæa Breweri, D. C. Eaton.
1362. densa, Hook.
1363. Cryptogramme acrostichoides, R. Br.
1364. Asplenium Filix-fœmina, Bernh.
1365. Var. Michauxii, Mett. (*A. angustum*, Willd.)
1366. Aspidium Lonchitis, Swartz. Wahsatch, above Cottonwood Cañon. 9,000 ft. alt. July.
1367. Cystopteris fragilis, Bernh.
1368. Woodsia scopulina, D. C. Eaton.
1369. Oregana, D. C. Eaton.
1370. Selaginella rupestris, Spring.
1371. Marsilea vestita, Hook. & Grev. Goose Creek Valley, Nevada. 6,000 ft. alt. September.
1372. Isoetes echinospora, Durieu, Var. Braunii, Eng. Uintas, Bear River Cañon. 9,500 ft. alt. August.
1373. Chara fragilis, Desv.
1374. fœtida, A. Braun.
1375. Var.
1376. Nitella opaca, Ag.
1377. Weisia crispula, Hedw.
1378. Fissidens grandiflora, Brid. Ruby Valley, Nevada. 6,000 ft. alt.
1379. Pottia subsessilis, Schwg. Near Carson City, Nevada. 4,500 ft. alt.
1380. cavifolia, Ehrh. Near Carson City, Nevada. 4,500 ft. alt.

1381. Pottia truncata, Br. & Sch. Near Carson City, Nevada. 4,500 ft. alt.
1382. Heimii, Hook.
1383. Anacalypta latifolia, Nees & Hsch. Bear River Cañon, Uintas. 11,000 ft. alt.
1384. Desmatodon latifolius, Br. & Sch., Var. muticus, Br. & Sch.
1385. flavicans, Br. & Sch., Var. obtusifolius, Br.
1386. cernuus, Wahl. Ruby Valley, Nevada. 6,000 ft. alt.
1387. Didymodon rubellus, Roth.
1388. cylindricus, Nees & Hsch.
1389. Barbula subulata, Dill. Wahsatch, near Salt Lake City. 5,000 ft. alt.
1390. lævipila, Br. & Sch.
1391. brevipes, Lesqx.
1392. ruralis, Dill.
1393. Mülleri, Bruch. Near Carson City, Nevada. 5,000 ft. alt.
1394. Ceratodon purpureus, Dill.
1395. Distichium capillaceum, Hedw.
1396. inclinatum, Swartz. Bear River Cañon, Uintas. 11,000 ft. alt.
1397. Encalypta vulgaris, L.
1398. Var. obtusa, Var. obt.
1399. rhabdocarpa, Schwæg.
1400. Orthotrichum Sturmii, H. & H.
1401. Jamesianum, Sull.
1402. Watsoni, James.
1403. anomalum, Hedw.
1404. lævigatum, Zetterstedt.
1405. rupestre, Schl.
1406. occidentale, James.
1407. Var.
1408. Grimmia conferta, Funk.
1409. apocarpa, Br. & Sch.
1410. anodon, Br. & Sch.
1411. pulvinata, Dill.
1412. orbicularis, Br. & Sch.
1413. ovata, Web. & Mohr.
1414. calyptrata, Hook.
1415. leucophæa, Grev.
1416. montana, Br. & Sch.
1417. Tayloria splachnoides, Schl.
1418. Physcomitrium pygmæum, James.
1419. Funaria Hibernica, Hook.
1420. hygrometrica, Hedw.
1421. Var. calvescens, Br. & Sch.
1422. Leptobryum pyriforme, Dill.
1423. Webera cruda, Schreb.

1424. Webera nutans, Schreb.
1425. albicans, Wahl.
1426. Bryum pendulum, Hsch.
1427. inclinatum, Swtz.
1428. intermedium, Web. & Mohr.
1429. bimum, Schreb.
1430. torquescens, Br. & Sch.
1431. pallescens, Schwæg.
1432. atropurpureum, Web. & Mohr.
1433. cæspiticium, L.
1434. argenteum, L. Near Carson City, Nevada. 4,500 ft. alt.
1435. capillare, Hedw., Var.
1436. Duvallii, Voit.
1437. turbinatum, Hedw.
1438. Var. latifolium, Br. & Sch.
1439. Var. angustifolium, Br. & Sch.
1440. Mnium affine, Bland.
1441. medium, Br. & Sch.
1442. Aulacomnion palustre, Dill. Bear River Cañon, Uintas. 8,500 ft. alt.
1443. androgynum, Dill. E. Humboldt Mts., Nevada. 8,000 ft. alt.
1444. Meesia uliginosa, L. Clover Mts., Nevada. 10,000 ft. alt.
1445. Philonotis fontana, L. Cottonwood Cañon, Wahsatch. 9,000 ft. alt.
1446. calcarea, Br. & Sch.
1447. Var. contorta.
1448. Timmia megapolitana, Hedw.
1449. Polytrichum piliferum, L. Bear River Cañon, Uintas. 8,500 ft. alt.
1450. juniperinum, Dill.
1451. Polytrichadelphus Lyallii, Mitt. Clover Mts., Nevada. 10,000 ft. alt.
1452. Fontinalis antipyretica, L., Var. gigantea, Sull.
1453. Pseudoleskea catenulata, Schl. (?) Bear River Cañon, Uintas. 8,000 ft. alt.
1454. Eurynchium strigosum, Hoffm. Same cañon. 9,000 ft. alt.
1455. diversifolium, Schl.
1456. Brachythecium rutabulum, L. W. Humboldt Mts., Nevada. 6,000 ft. alt.
1457. asperrimum, Mitt.
1458. rivulare, Br. & Sch.
1459. collinum, Schl.
1460. salebrosum, Hoffm. Goose Creek Valley, Nevada. 5,500 ft. alt.
1461. lætum, Br. & Sch. Wahsatch. 8,000 f

1462. Brachythecium albicans, Neck. Bear River Cañon, Uintas. 9,500 ft. alt.
1463. Utahense, James.
1464. Camptothecium Nevadense, Lesqx.
1465. Amblystegium serpens, Dill.
1466. compactum, C. Müll. W. Humboldt Mts., Nevada. 7,000 ft. alt.
1467. radicale, Beauv.
1468. orthocladon, Sull.
1469. riparium, L.
1470. noterophilum, Sull. Pack's Cañon, Uintas. 7,000 ft. alt.
1471. Limnobium palustre, L. American Fork Cañon, Wahsatch. 9,000 ft. alt.
1472. ——— ? New species.
1473. Hypnum pallescens, Schp.
1474. imponens, Hedw.
1475. uncinatum, Hedw.
1476. fluitans, L.
1477. aduncum, Hedw.
1478. Var. giganteum, Br. & Sch.
1479. filicinum, L.
1480. ——— ?
1481. Riccia glauca, L. Wahsatch Mts., Utah. June.
1482. crystallina, L.
1483. Marchantia polymorpha, L.
1484. Fegatella conica, Corda.
1485. Fimbriaria tenella, Nees. Wahsatch, near Salt Lake City. May.
1486. Radula complanata, Dumort. Uintas, above Duchesne River. 9,000 ft. alt. July.
1487. Evernia vulpina, Ach. Virginia Mts., W. Nevada. 8,000 ft. alt.
1488. Theloschistes parietinus, Var. polycarpus, Fries. Wahsatch Mts.
1489. Var. lychneus, Nyl. Wahsatch.
1490. Parmelia olivacea, Ach. Wahsatch.
1491. conspersa, Ach. Bear River Cañon, Uintas.
1492. Physcia stellaris, L. Antelope Island, Salt Lake.
1493. obscura, Nyl., Var. Approaching P. pulverulenta.
1494. Peltigera aphthosa, Hoffm. Uintas.
1495. rufescens, Hoffm.
1496. canina, Hoffm.
1497. Pannaria Hypnorum, Delis.
1498. Placodium fulgens, DC., Var. bracteatum, Ach.
1499. elegans, DC.
1500. vitellinum, Naeg. & Hepp.
1501. cerinum, Naeg. & Hepp., Var. biatorinum, Nyl.
1502. Lecanora rubina, Schær.

1503. Lecanora rubina, Var. opaca, Ach.
1504. muralis, Schær. (*L. saxicola*, Ach.)
1505. subfusca, Ach., Var. sylvestris, Nyl. (?) Wahsatch.
1506. Var. umbrina, Nyl. Antelope Island.
1507. cinerea, Sommerf.
1508. Var. cinereo-rufescens, Nyl. Antelope Island.
1509. cervina, Nyl., Var. Antelope Island.
1510. Var. eucarpa, Nyl. Antelope Island.
1511. chlorophana, Ach. Antelope Island.
1512. ~~saxicola~~, Var. Garovaglii, Near Carson City.
1513. xanthophana, Nyl.
1514. Rinodina sophodes, Nyl., Var. Wahsatch.
1515. Cladonia pyxidata, Fr. Uintas.
1516. Var. symphicarpa, Fr. Uintas.
1517. fimbriata, Fr. Uintas.
1518. Biatora globifera, Fr. Near Carson City, Nevada.
1519. Russellii, Tuck.
1520. decipiens, Fr.
1521. Lecidea vesicularis, Ach.
1522. Buellia Montagnæi, Tuck. Antelope Island.
1523. geographica, Tuck.
1524. Endocarpon miniatum, Schær., Var.
1525. Var. complicatum, Schær.
1526. Var. Muhlenbergii, Nyl.
1527. Agaricus ——?
1528. Cantharellus aurantiacus, Fries.
1529. Lenzites striata, Swartz. Uintas.
1530. Dædalea ——? Wahsatch.
1531. Hydnum ——? Uintas. 9,000 ft. alt. August.
1532. Merulius lachrymans, Schum.
1533. Clavaria aurea, Schæff.
1534. formosa, Pers. Wahsatch. 9,000 ft. alt. August.
1535. fumosa, Pers. (?) Uintas. 10,000 ft. alt. August.
1536. Lycoperdon gemmatum, Bull.
1537. giganteum, Batsch. City of Rocks, S. E. Idaho.
1538. Pesiza stercorea, Pers.
1539. Æcidium crassum, B. & C.
1540. Bahaiæ, B. & C.
1541. Puccinia strigosa, Billings.
1542. brunnea, Billings.
1543. Gayophyti, Billings.
1544. Mycelium ——?
1545. Ulva merismopedioides, Woods.
1546. Lemanea catenata, Kütz.
1547. Batrachospermum vagum, Kütz. (?)
1548. Nostoc cristata, Bailey.
1549. Protococcus nivalis, Ag.

SUMMARY.

Phænogamous Genera, Indigenous,	408	
Introduced,	15	
Cryptogamous Genera,	85	
Total of Genera,	——	508
Phænogamous Species, Indigenous,	1,094	
Introduced,	28	
Cryptogamous Species,	179	
Total of Species,	——	1,301
Genera wholly new,		5
Species wholly new, Phænogamous,	85	
Cryptogamous,	9	
Before collected, but undescribed,	27	
Total of New Species,	——	121

WASHINGTON, D. C., *May*, 1871.

Watson S.

Pasquenia.

Dr. Asa Gray, of the Technological Inst. Cambridge, joins a [illegible] of the flower of Pontederia cordata, having given also to Dr. Gray, in Nat. Sci. an article of Müller in Nat. Sci. for 1876 upon the same subject, some doubt which remains in regard to the real method by which fertilizing takes place in this plant. (in his opinion) Mr. Müller [illegible] any attention to the fact now in flower at the Botanic Garden, Cambridge, and in his [illegible] The conclusions to which I have been brought are so curious that they seem worth communicating.

The flower, as figured, of natural size is represented in fig. 1. This Pontederia is a shrub of some feet in height, [illegible] freely. The inflorescence [illegible] closely resembles [illegible] compound. The flowers have zygomorphic or sym. [illegible] as it appears before opening is represented of natural size in fig. 1. The slightly unequal petals [illegible] the middle [illegible]

cases are called false disciplinants. C. O'Donoghue in his Memoire & in the Proceedings calls them "dorsal" and the primary ones "ventrals", a phraseology which I have avoided, as they are not upon the outer dorsal side of the carpels but on the inner & ventral surfaces. They come not the central column with the "placental" lines but are seen as high as the primary partitions, in C. amoena reaching nearly to ½ the height of the ovary, to ⅔ in G. regia, ½ in G. nigrescens & C. albicans. In many species they are wholly wanting, as in G. cinerea & G. japonica, C. chrysantha & many others.

Hollows ("Cacuna") occur both on the inner surface of the outer walls & in many species in the disciplinants. The parietal lacunae lie between the fissures & commissural lines, one in each quadrant & always nearer to the fissures, or two & in that case the more strongly developed one nearest the fissure.

~~a free passage for the stamens~~, the imbricated into a firm round somewhat gibbous or bow + deflected from the direction of the tube in such a manner as to avoid contact with either the filaments or anthers. Upon the opening of the bud the stamens are as shown in fig. 2. — the anthers united ~~together~~ by their edges, the filaments unequal and unlike. The lower filament is stouter + transversely flattened + is inserted rather lower in the ~~tube~~ of the tube than the others. The lower lateral pair are also flattened but more slender and less stout. The upper pair are much more slender, rounded, bowed into a complete semicircle and over the upper end bent ~~at~~ inward + downward at a right angle. While in this position these filaments, which are very elastic are subjected to a strong tension, ~~that~~ but in opposite or different directions. The tendency of the lower stamen is to fly upwards, that of the lateral ~~pairs~~ to fly away from the centre + from each other. The ~~only~~ ~~[illegible]~~ only resistance to this tension is the delight adherent force

of the edges of the ~~[illegible]~~ anthers, avoids essentially by a ~~[illegible]~~ change of structure at the very extremities where the adhesion is rather more firm, especially at the lower end, the anthers there terminating in short thin membranous folds which are in close contact. The anthers thus united form a single oblong cell filled with a mass of tightly dry pressed pollen.

If now the least ~~pressure~~ additional pressure be applied in any direction, especially towards the anther cell, this state of unstable equilibrium of pressure is disturbed, and there is an instantaneous change of position. Owing to the curvature of the lateral filaments the rupture commences along the line joining the upper anthers, beginning near the base, the lower anthers ~~[illegible]~~ is pushed up, nearly, a separate breaking from from its attachments on both sides, the lateral frills still remaining united ~~[illegible]~~ by a strong cuticle, the particles straightening of the compressed pollen in the upper filament gives a quicker ~~[illegible]~~ motion to the

opposite than they would otherwise have, the entire position thus left upon the hollow cylinder of the lower one then is by its finish movement through half a circle thrown into the air & scattered to a considerable distance. The resulting position of the elements is shown in fig. 3. – the lower filament now lying above & covering the fringed mouth of the tube.

The force of this explosion, for such it is, may be estimated from an approximate measurement of the elastic force of the curved filaments. The lower filament brings back to its original position suspended in air by a weight equal to 50 grains & is required that weight to retain it in place. Exactly the same weight was needed to bring each lateral point back to the centre, though the power of the individual filaments was unequal, the lower one exerting 35 grains and the upper but a little over 15. The pellets were thrown a horizontal distance of nearly two feet.

The explosion thus force appears to be purely mechanical, no irritability can be detected about the filaments, though indeed Mueller positively asserts that in his plant the image organs of the upper filaments near the mouth are sensitive that is could not be touched without causing an explosion. This certainly is not the case here, though in

[illegible]

[illegible] his opinions were [illegible] to this country, but with the request that their publication [illegible]

[illegible]

[illegible] his opinions, as the publication [illegible]

[illegible]

[illegible] recorded processes of any [illegible] will be [illegible]. He may however have had another object in view, and the figures which [illegible] only be differences. The reason (therefore [illegible]) seems to more improbable of this was for the occasion, in view of a lecture. In his opinion the agency of insects was necessary to the discharge of the pollen through their irritation of the filaments in their search for the nectar which the [illegible] flowers secrete abundantly, but the mere weight of the anthers, or without the agency any [illegible] jar or pressure, or the fall of a raindrop is sufficient for the purpose. In fact it is not unfrequently the case that the pollen is discharged before the flower has [illegible]

4/ The question only remains as to the manner in which the pollen is conveyed to the stigma, which is deep within the narrow tube of the flower, the pistil curve reaching above ~~half~~ its ~~length~~ middle. At least we have no evidence that the flowers are ever dimorphous in the relative lengths of the style & stamens. At the time of the ~~[illegible]~~ explosion it is evidently impossible that any pollen should reach the stigma of the same flower, for the direction of the projectile force is upwards & the resultant position of the filaments over the mouth of the tube serves to cut off all future approach. Muller however noticed a fact which seems to indicate a solution, viz. that within an hour after the explosion the three longer filaments had resumed its original position leaving the tube open to the approach of insects and Mr. Wright suggests the agency of the longer-tongued species in conveying pollen to the stigma by reason of its long proboscis. This insect is doubtless capable of reaching sufficiently deep into the tube to reach the stigma, but the ~~[illegible]~~ narrowness of the entry, its curvature not necessary & the inner [illegible] of hairs [illegible] the [illegible] would [illegible] con-

vigour of any pollen a matter of uncertainty.

The true solution appears to be sufficiently simple. Within 36 or 48 hours from the opening of the flower, the corolla ~~[illegible]~~ has separated from the calyx and as a consequence of its original drooping position has an anther fallen. The style is withdrawn from the tube & remains, the stigma now being in a perfectly fresh condition & ready to receive the pollen. It remains in this condition at least a day and usually longer, but the meanwhile it is exposed to the showers of pollen from exploding anthers around it. To increase the chances the whole stigmatic surface is moist with nectar & a drop is often hanging from the ~~[illegible]~~ stigmas. So then if any grains of pollen strike anywhere upon its length they are doubtless caught & probably find their way by growing to the stigmatic surfaces. In this way cross-fertilization is secured independently of the aid of insects or any other agency

5/ extending to the flower itself.

It is probable that the return of the lower filaments to a positive condition preceding the time of the upper ones is due simply to the reestablishment of a similar cellular tension on the inner side of the filaments in place of the singular one in the opposite direction which at first existed for a temporary purpose. It would seem, at any rate, to have nothing to do with the process of fertilization.

That fertilization is effected in these short styled flowers is proven by its occurrence in case of the plants now in flower here, which have matured perfect seeds, and indeed the flowers of this season while still in the greenhouse & mostly shut off from the visitation of insects show ovaries that appear to be fecundated. —

Sincerely Yours

Cambridge, Mass.
June 15, 1872.

Hypnum
- Sabinifonens 4th July Canon 3
- rivulare Sawmill Russian River
- albicans Coeur d'alene
- nevadense Spokan falls
- stoloniferum Fort Colville
- Monterey
- Nuttallii? Lost Creek
- Campestre Kettle Rt off
- Grasshopper Creek S.W. Montana
- Coeur d'Alene
- utahense Odell
- robustum Milk Ranch
- plicatilis Schmulgris Canon S.W. Montana

95 sp.

Lophohymenium Sp. plicato-serratum Duncan's Mills

List of Mosses collected by Serene Watson in British America and U.S. Western States Aug. 7 May 1881.

Sphagnum
- subsecundum Cascade Mts
- squarrosum

Dicranum
- scoparium Coeur d'Alene
  - Spokan falls
  - Milk Ranch Bd Hunt Mts
  - Fort Colville
  - Shoganshu Pass
  - Much of Swamp
- Strictum
  - Jocko Canon
  - Saw Mill
  - Kettle R Creek
  - Jocko lake
  - Spokan Falls

Rhabdoweissia
- Schisti - Spokan Falls

Ceratodon
- purpureus
  - Jocko divide
  - Rock Creek Okanogan
  - Noon Camp W. Mont Bd Hunt Mts
  - variety Odell
  - Fin Creek

Fissidens
- minutulus Rock Creek
- mundindes Rock Creek

Barbula
- Capitosa subulata Milk Ranch
- Saxalis near Lost Creek

Barbula
- uralis — Granite canon (near Missoula)
  - Spokan Falls 2
  - Idaho — Baker creek (Yakima Region)
  - × Sunday ranch (W. Mont)
  - 7/26 canon
- Müllerii — Alderneys (Russian R. Calif)
  - × Shumbrey canon 2
- all these lacking
  - autocarpa — Monterey (S.W. Montana, Steele auct ?)
  - amplexa — Fort Colville
  - spiralis — Rock Creek
  - vinealis — Duncans Mills (Russian R.)
  - convicta — Duncans Mills
- Didymodon
  - rubellus — Creek Camp (Bitterroot Mts) 2
  - Granite canon
  - Alderneys
  - Rock Creek (Bitterroot Mts)
  - Creek bunk Camp
- Tetraphis pellucida — Creek canon
  - Granite canon (Missoula)
  - Milk ranch (Bitterroot)
- Eucalypta vulgaris — Fort Colville
  - Sunday lunch
  - Coeur d'Alene
  - 7/16 canon ×
- Orthotrichum speciosum — Mt Lost Creek
  - Sunday lunch 2
  - Spokan Falls 2
  - Rock canon (S.W. Mont)
  - Odells
  - Duncan's
- ? Ohioense — Alameda Califn

Hypnum
- uncinatum — Boundary Creek
  - Fort Colville
  - Bunting ground
  - Pend d'Oreille Trail (Cascades)
  - × Coeur d'alene lake
- salebrosum
  - Granite canon
- Crista castrensis — Alderneys, Duncans Mills
  - × Missoula canon
- reparium
  - Tenmiles canon
  - 7/26 canon
- strigosum — Fort Colville 3
  - Milk ranch — N Idaho
  - Kettle cut off 4
  - Sawmill 2
  - Coeur d'alene
- Serpens — Noon canon
  - Odells 2
  - Sawmill
  - Frenchtown (near Missoula)
- acutum — Hedge canon
- Schreberi — Milk Ranch
- (?) Sommerfeltii — Milk ranch ?
- Stokesii — Coeur d'alene lake
- cupressiforme — Fort Colville (one small pin — 4th July canon) ×
- Kneiffii — Monterey ×

Antitrichia
californica Spokan Falls
Cloverdale 3

? Antitrichia
curtipendula

Alsia
californica Monterey
Duncan's
abietina Cloverdale
Duncan's

Brauia
californica Aldernys

Neckera Menziesii Spokein Falls
Boundary creek

Climacium
americanum? Kettle creek

Pterigynandrum
filiforme 7/26 canon

Hypnum
triquetrum 4 July canon
Spokan falls

Thuidium sparconeuron
Regis Canon
Coeur d'alene
crispifolium Duncans
Fort Coloville

4th July Canon.

Hypnum splendens S & R River
myosuroides? Monterey
uncinatum Rock creek Okanagan

Orthotrichum
Lyellii Coeur d'Alene?
Cloverdale Calif
Duncans Mills
Stangeldt Monterey Calif

Grimmia Spokan falls
doleri
apocarpa Mount Canon
Baker creek
pulvinata Mount Canon
Spokan falls
Sunday Lunch
Hot Springs S. Wash
montana Bot-Amma
Sunday lunch 2
Rock Creek
Watsoni - alderney See James Collection
calyptrata Sunday lunch 2
Rock Creek
Doniana Baker Creek
commutata Monterey

Racomitrium
sudeticum Spokan Falls
microcarpum Coeur d'alene
canescens Yokima Pass

Hedwigia
ciliata Fort Coloville

Anoplum
undulatum Kettle R Creek

Polytrichum
piliferum Ridge at Saw Mill
Coeur d'alene
Spokan Falls

Polytrichum
juniperinum Grant's Canon Ridge

Pohlia
Megapolitana Lebo pass
4th July canon
Broadway creek 2
Milk ~~creek~~ Ranch 2

Aulacomnion
palustre Grasshopper Creek
androgynum Milk ranch
Rock creek can
Pl canon
Rock creek
Duncan's Mills

Leptobryum
pyriforme Kettle R cut off
Bannock to Odells
Broadway creek

Bryum
crudum Decent fr Can
Milk Ranch 2
Rock creek
Saw mill
Mutans Odells
Saw Mill
pendulum Odells 2
intermedium Odells 2
Saw mill Canon
capillare Kettle cut off
Aldermeys
Rock creek

Bryum caespiticium Saw mill
Aldermeys 2
Schumbergers Canon
Decent
pallescens Spokan Falls

Mnium
affine Granite Canon
serratum Mouth of Swamp
Kettle cut off
venustum Spokan Falls
Milk ranch
Coeur d'Alene
C d'A lake 2
medium Rock creek
Menziesii - Coeur d'alene

Bartramia
not in Rude homiformis St Leon, Canon [0]
fontana Hot Springs 2
Odells
Lake pass
Menziesii Spokan Falls.

Fissidens
hygrometrica Hillgate Canon
Sunday Lunch

Pottiales
Dalecarlica Squamosa Grasshopper creek
Okanagan River

Anoectangium
California Duncans
Aldermeys